

# Devon Authorities Strategic Waste Committee

An industry view of the Government's Resource and Waste Strategy & tools

recycling and recovery UK

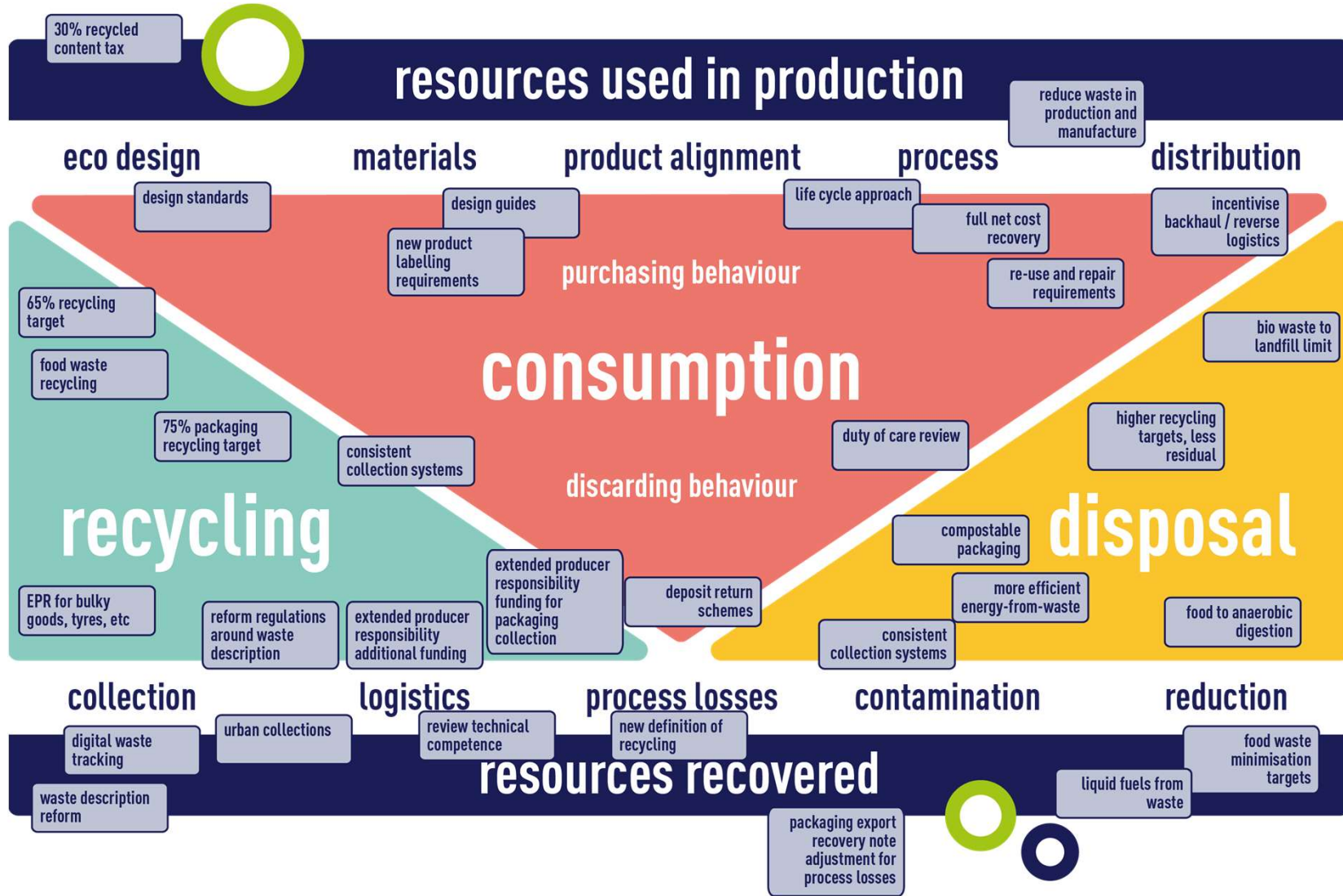
June 2019

**Stuart Hayward-Higham**  
**Technical Development Director**

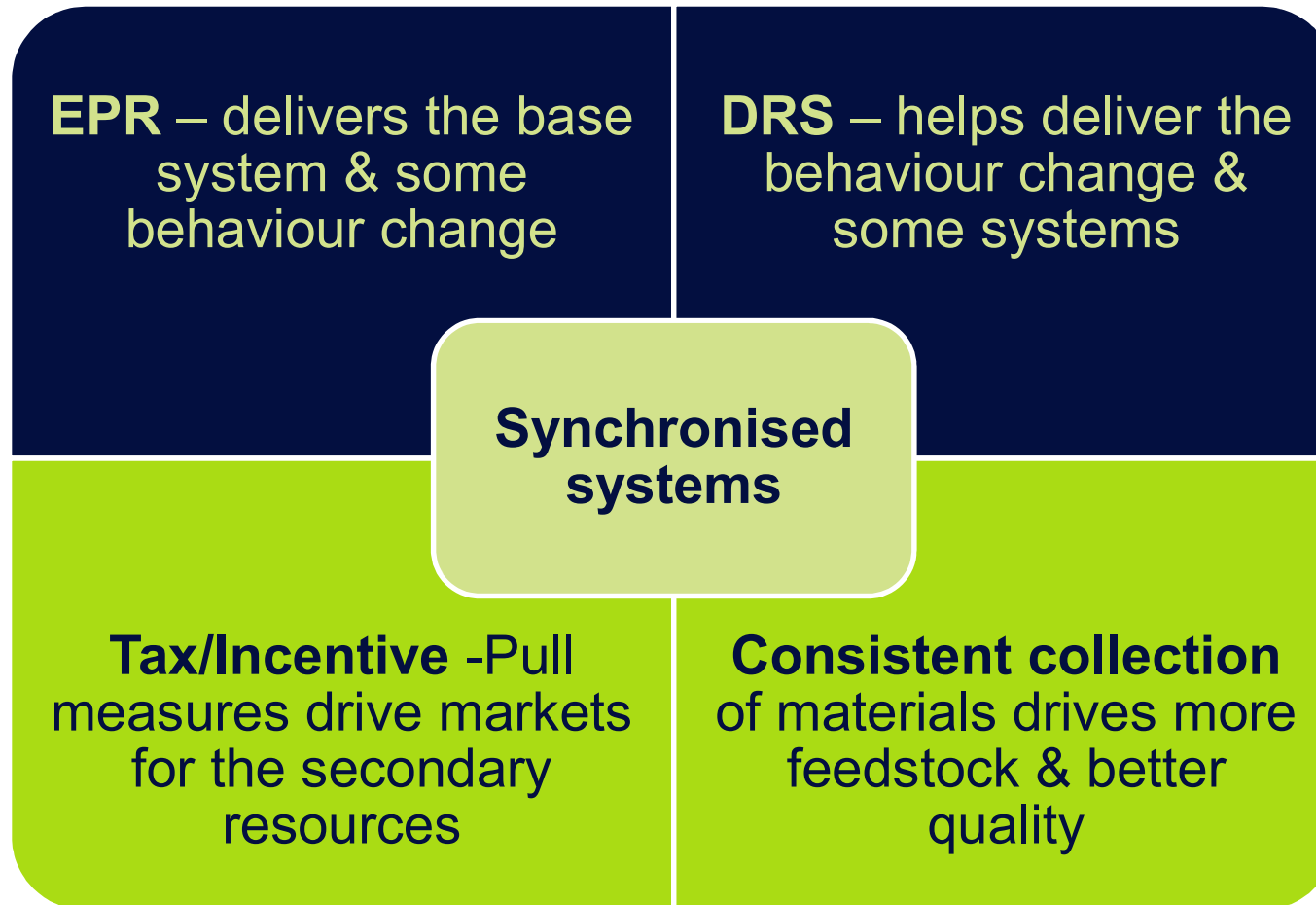
ready for the resource revolution



# policy | sum of changes across the system

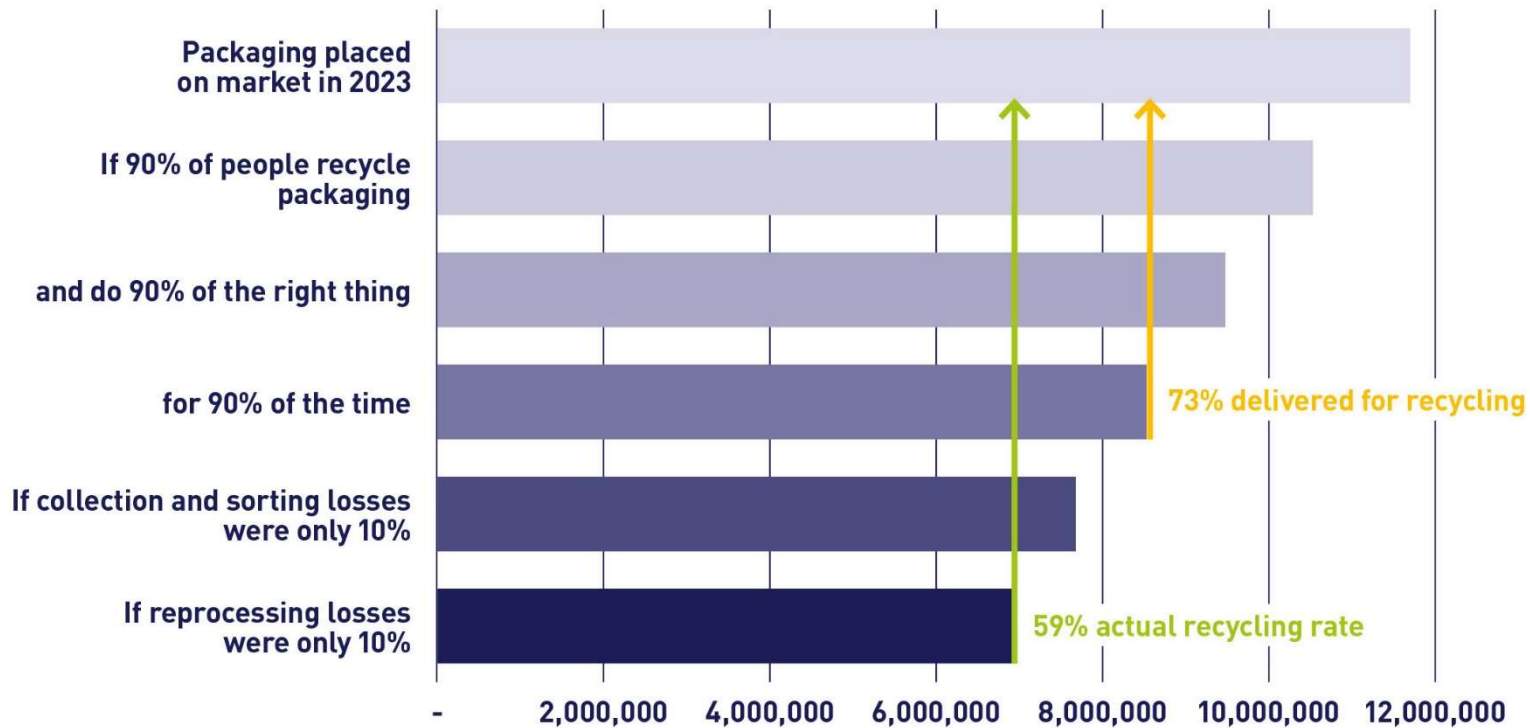


# The need | **synchronised systems**



# Systems | collaborative action is the key

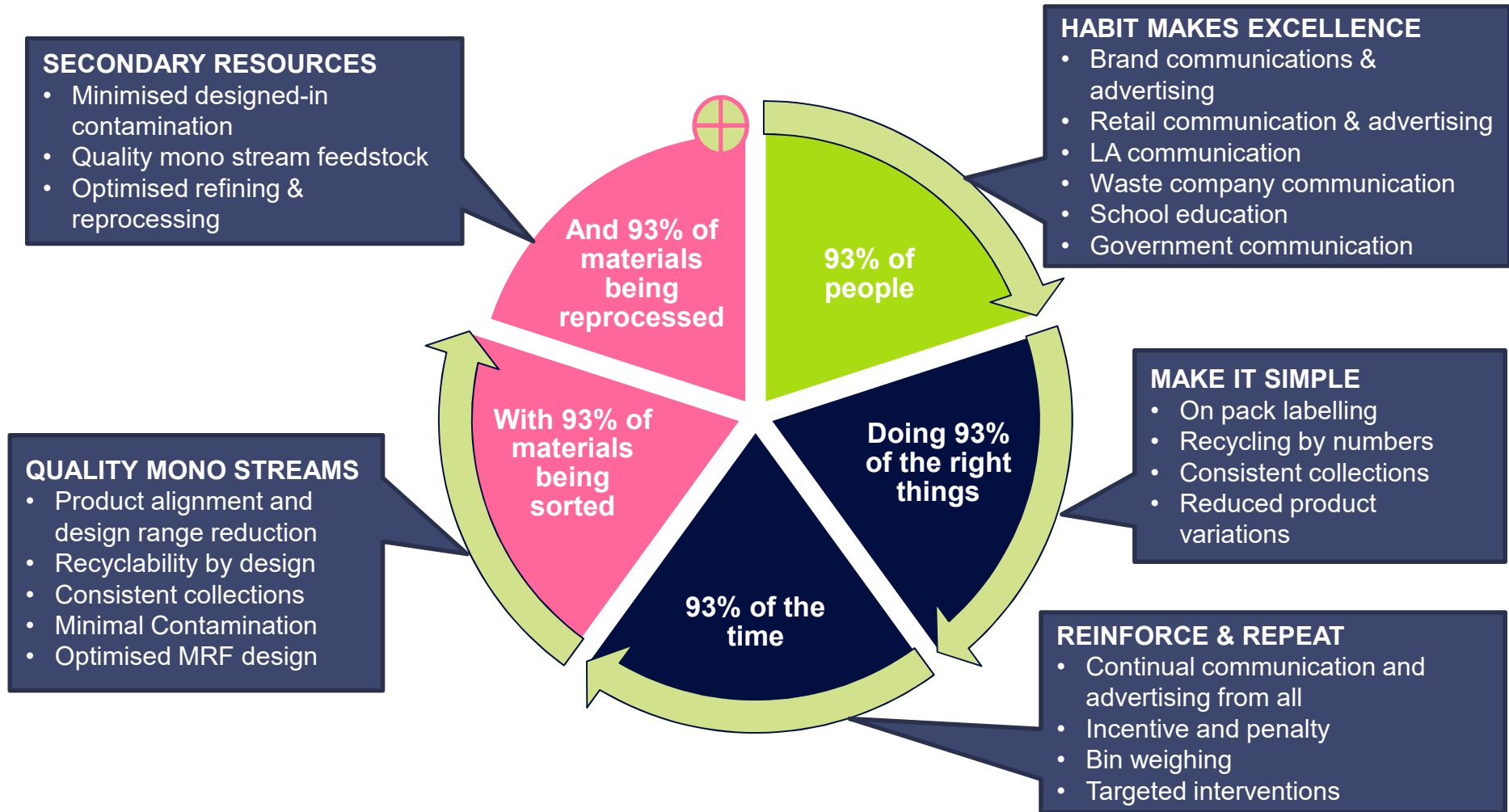
The need for full value chain collaboration to recycle packaging (excellent performance)



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However, 5 x 90% efficiency will give a recycling rate of 59%

# Systems | collaborative detailing



**To get to 70% packaging recycled we need 5 x 93% efficiency**

# The need | simple systems to drive habits habits drive excellence

## COLOURS TO INFORM PURCHASE



## NUMBERS TO RECYCLE BY



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# EPR Systems

Against our published 10 principles... none are perfect!!

How the governance models proposed support the 10 extended producer responsibility principles originally established by SUEZ

	M1	M2	M3	M4
1 More sustainable design	✓	✓	✓	✓
2 Enhanced brand equity	?	✓	✓	✓
3 A level playing field	✗	?	?	?
4 Informed, empowered consumers	?	✓	✓	✓
5 A competitive marketplace	✓	✗	✗	✓
6 Innovation	✓	?	?	✓
7 Simplicity for all	?	✓	✓	?
8 Minimal consumer cost	✓	✗	✗	✓
9 A system free from crime	✓	✓	✓	✓
10 Rewards and penalties	✓	✓	✓	✓

#### Governance models

- M1** Enhanced version of 'business as usual'.
- M2** Single not-for-profit organisation.
- M3** Twin not-for-profit organisations – one for household-like waste and one for nonhousehold-like waste.
- M4** Deposit-based, government-managed scheme.

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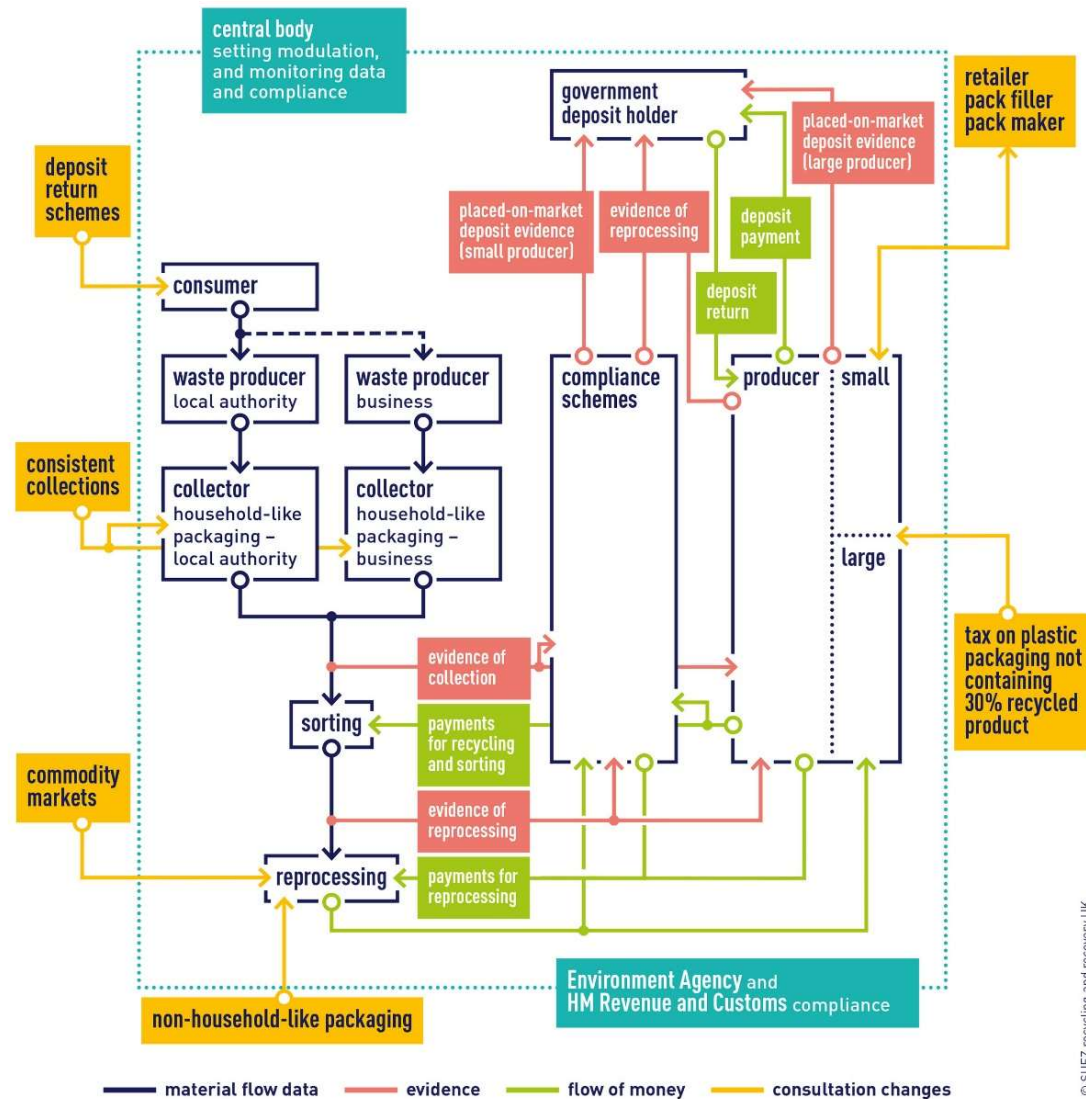
# EPR Systems

a hybrid of the best of each is what we thought would be required

Take some elements of...

- The business waste payment mechanism from option 1
- The central control aspects from option 2
- The deposit payment from option 4
- The split of Household like and non household like from option 3

Potential hybrid packaging extended producer responsibility governance scheme and the influence of other consultation changes



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# DRS Systems SUEZ View

DRS is part EPR (it's a method of harvesting)

EPR delivers the main systems and DRS delivers on behaviour change

DRS – On the GO ( to compliment the existing systems that would have been bolstered by EPR) rather than All In.

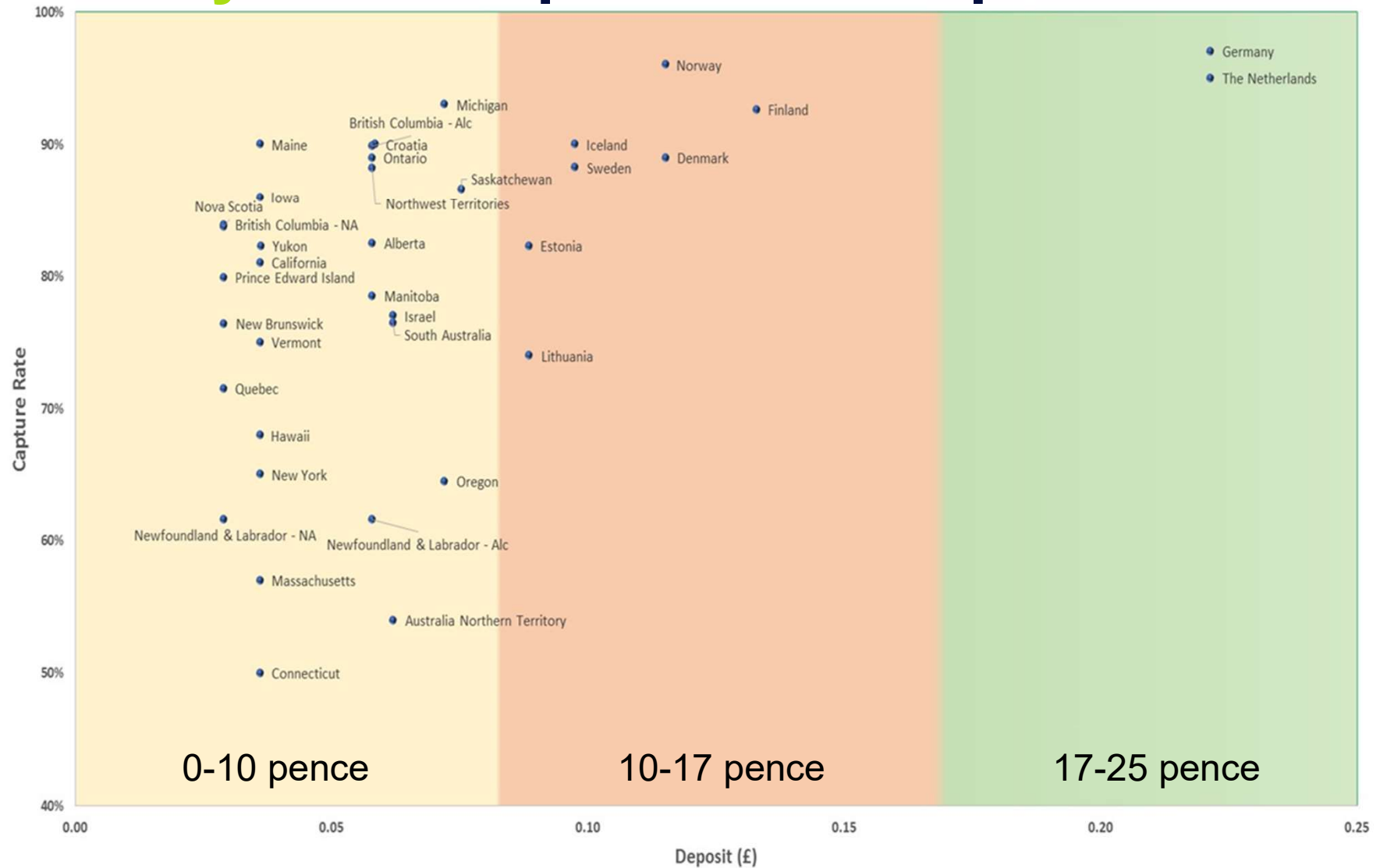
DRS rate of 10p a unit should deliver litter and behaviour outcomes

Implementation should start with plastic beverage bottles, add in cans if needed, once the impact of EPR etc can be assessed. Don't include glass.

Need to take care with format change and multipack through EPR modulated fee and DRS fee payments to restrict options to move to less recyclable options.

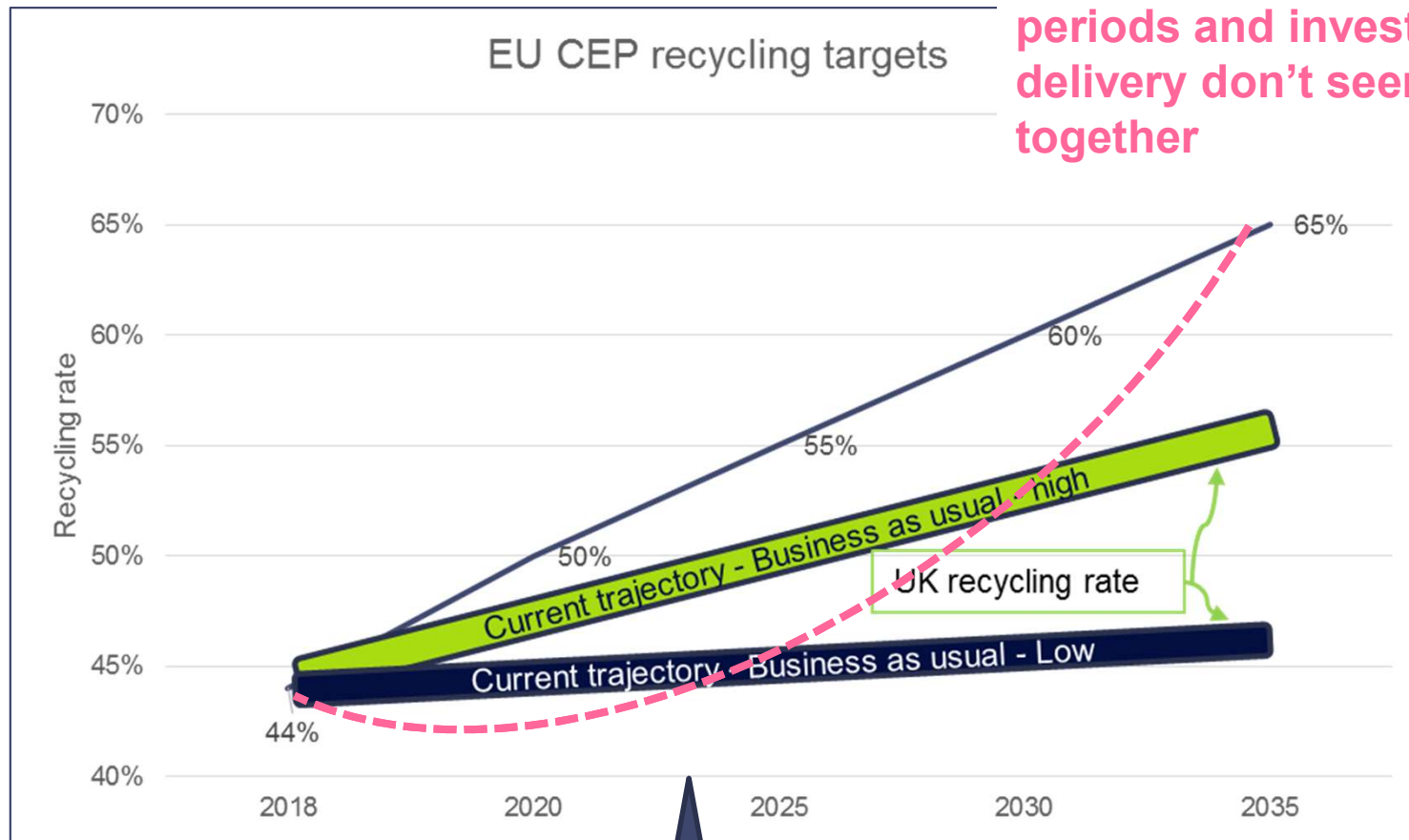
Deposit points should be focussed to achieve maximum retailer take back (including SME). All in might push points to larger supermarkets only

# DRS Systems Impact of the deposit amount



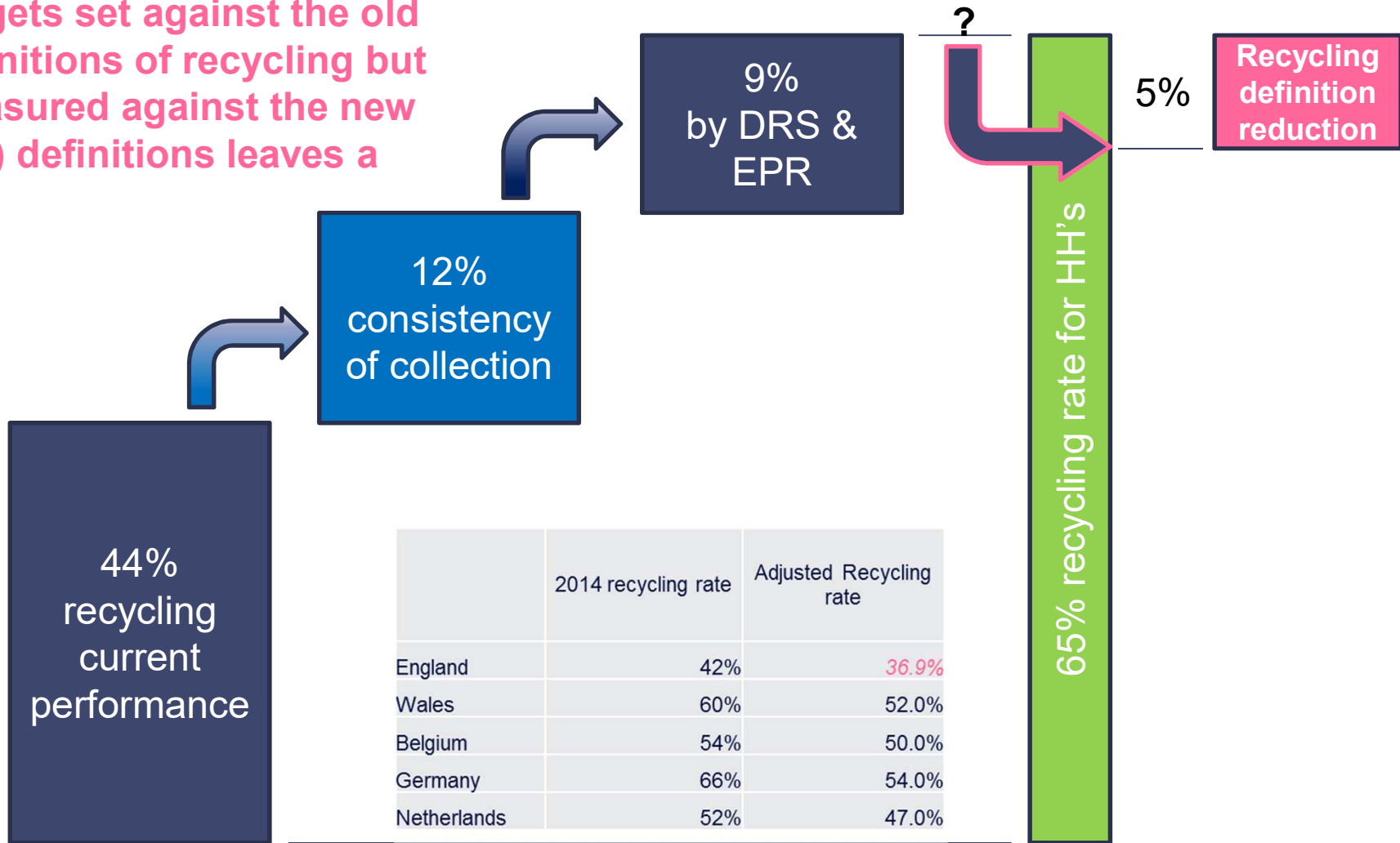
# Targets | planned phasing does not work

Targets matched against policy timeframe delivery, transition periods and investment delivery don't seem to marry together

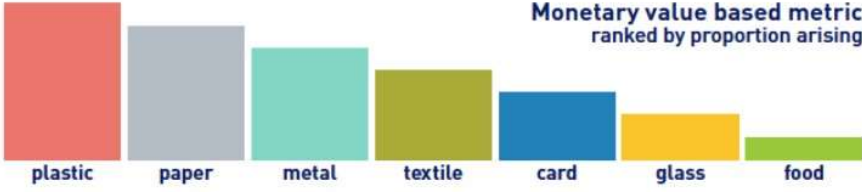
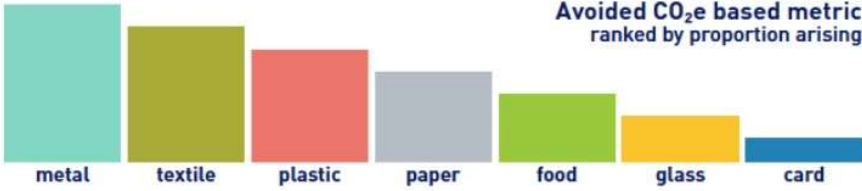
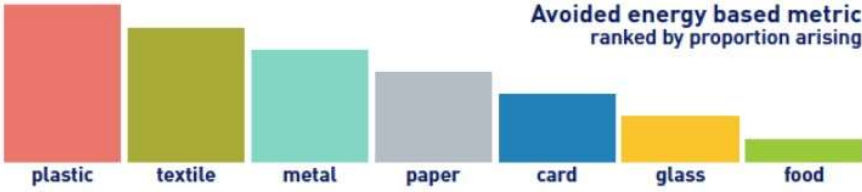
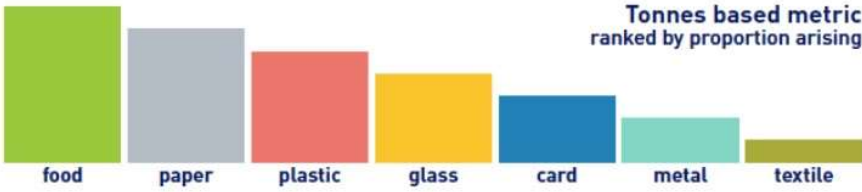


# Recycling | Need for common target baseline

Targets set against the old definitions of recycling but measured against the new (EU) definitions leaves a gap



# Metrics | Fixed on weight but moving

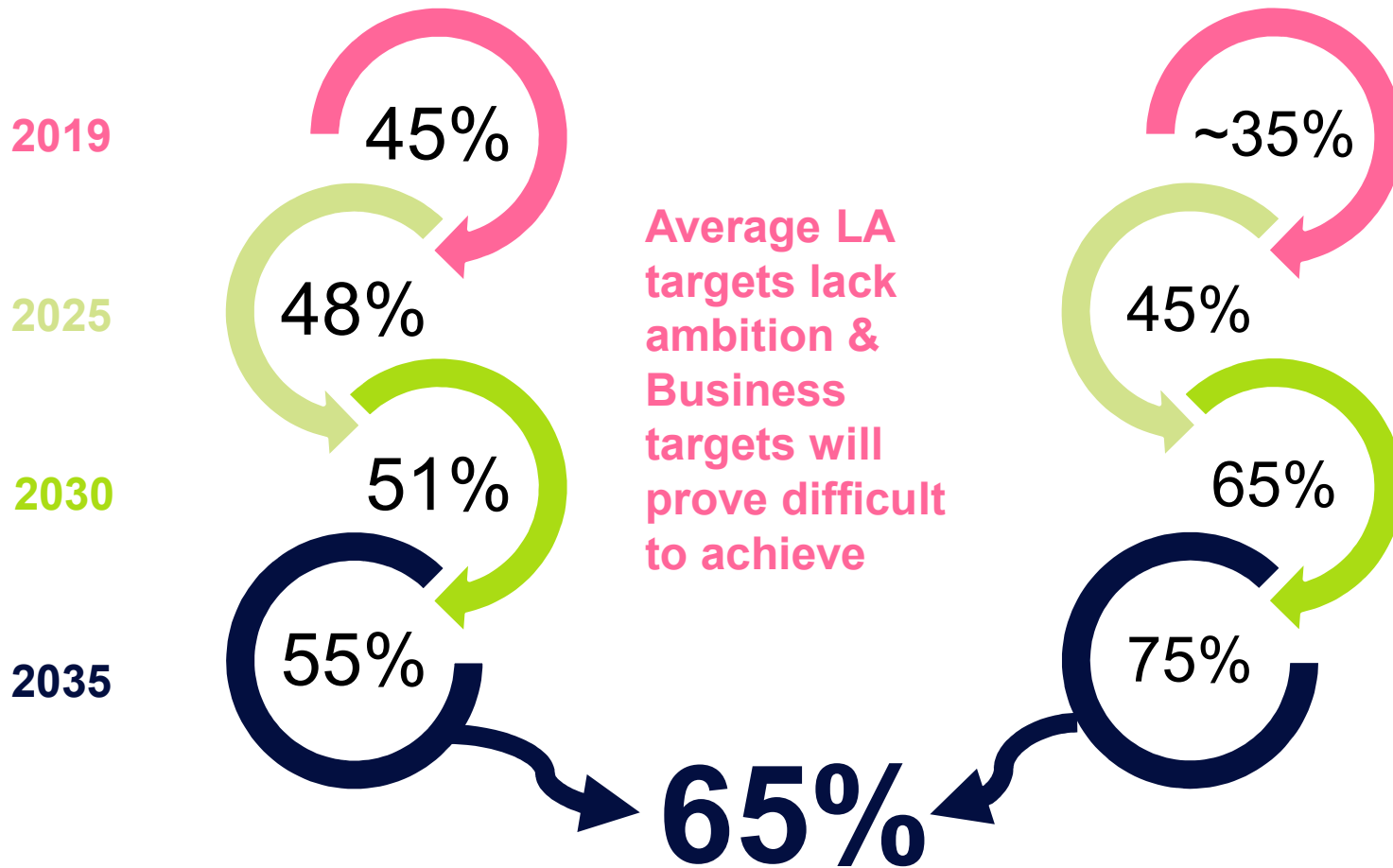


# Recycling | LA & business targets proposed

(Old definition of recycling)

Average LA HHL targets

Average Business HHL targets

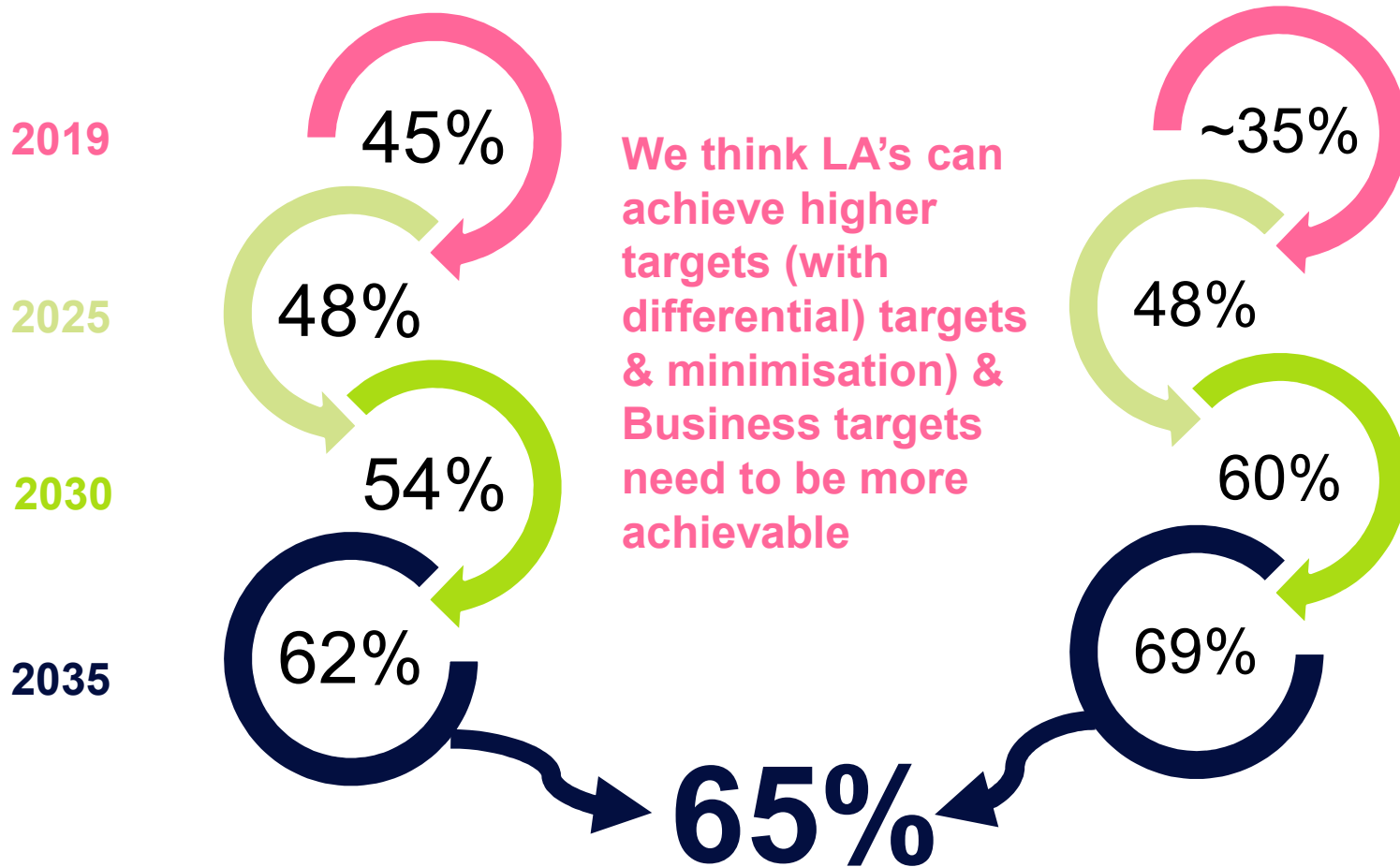


# Recycling | LA & business targets 'SUEZ'

(Old definition of recycling)

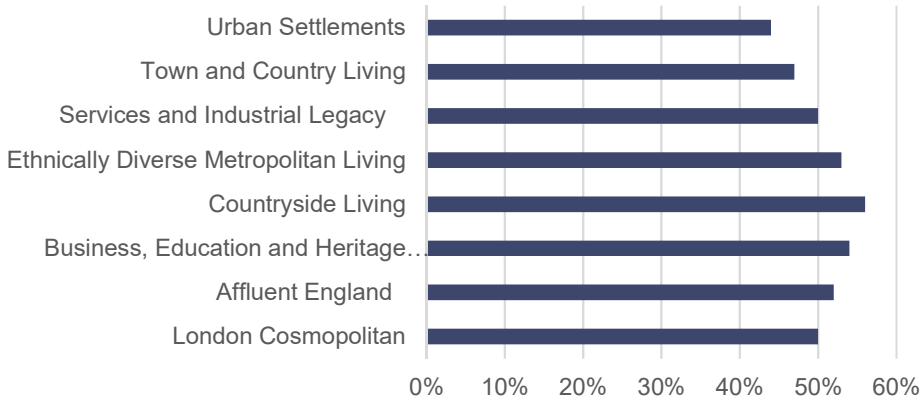
Average LA HHL targets

Average Business HHL targets



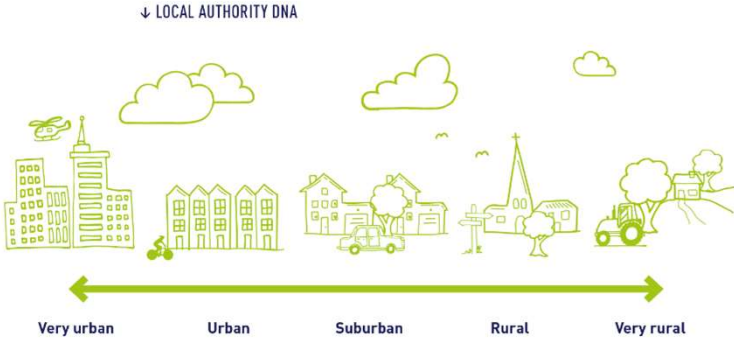
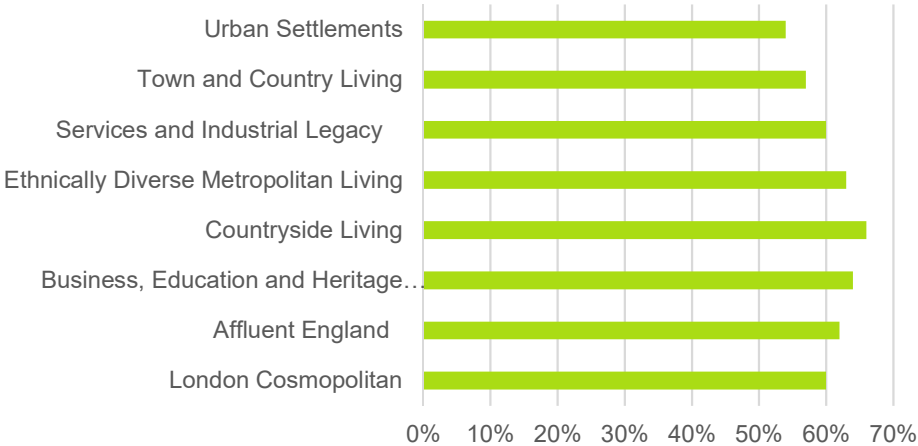
# Potential Recycling uplifts | food

2025 capture rate - Food



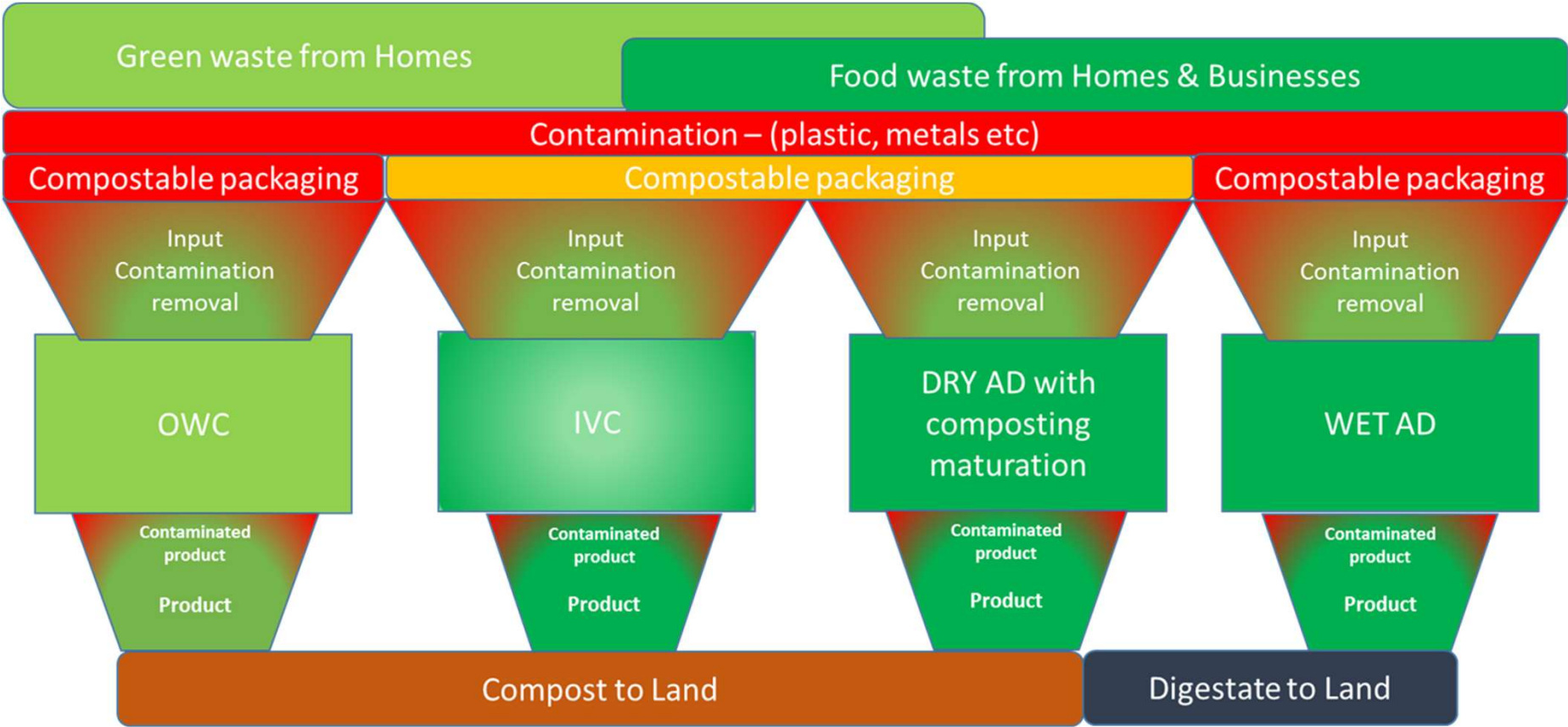
We think the defra food waste projections are optimistic and will vary by type of authority

2035 capture rate - Food



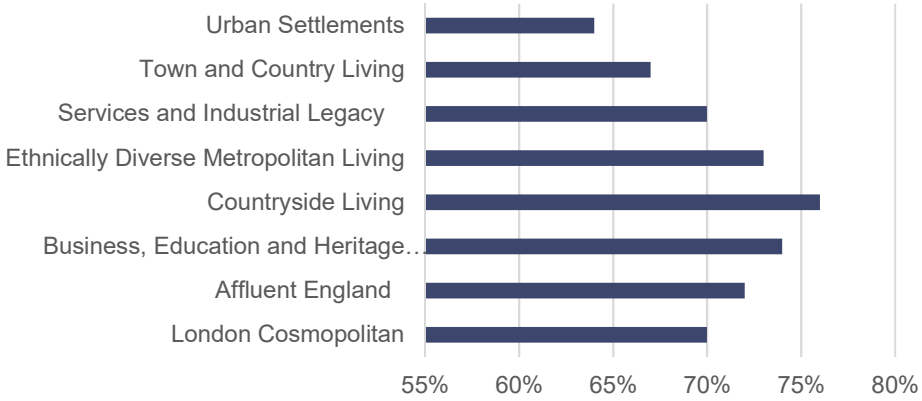


# Food and Green recycling | choices



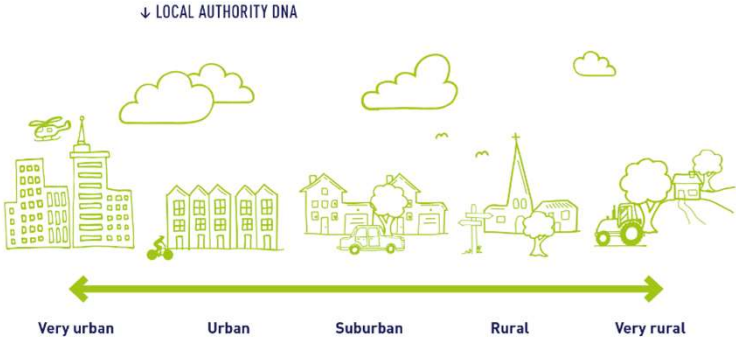
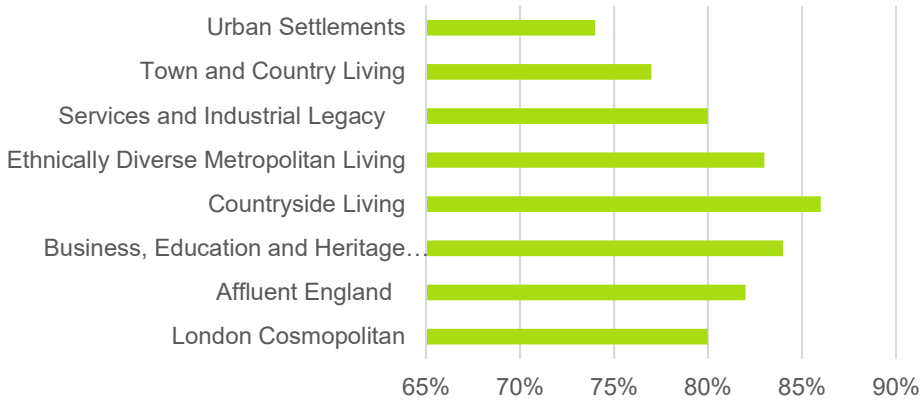
# Potential – differentials on impacts

2025 capture rates - Card



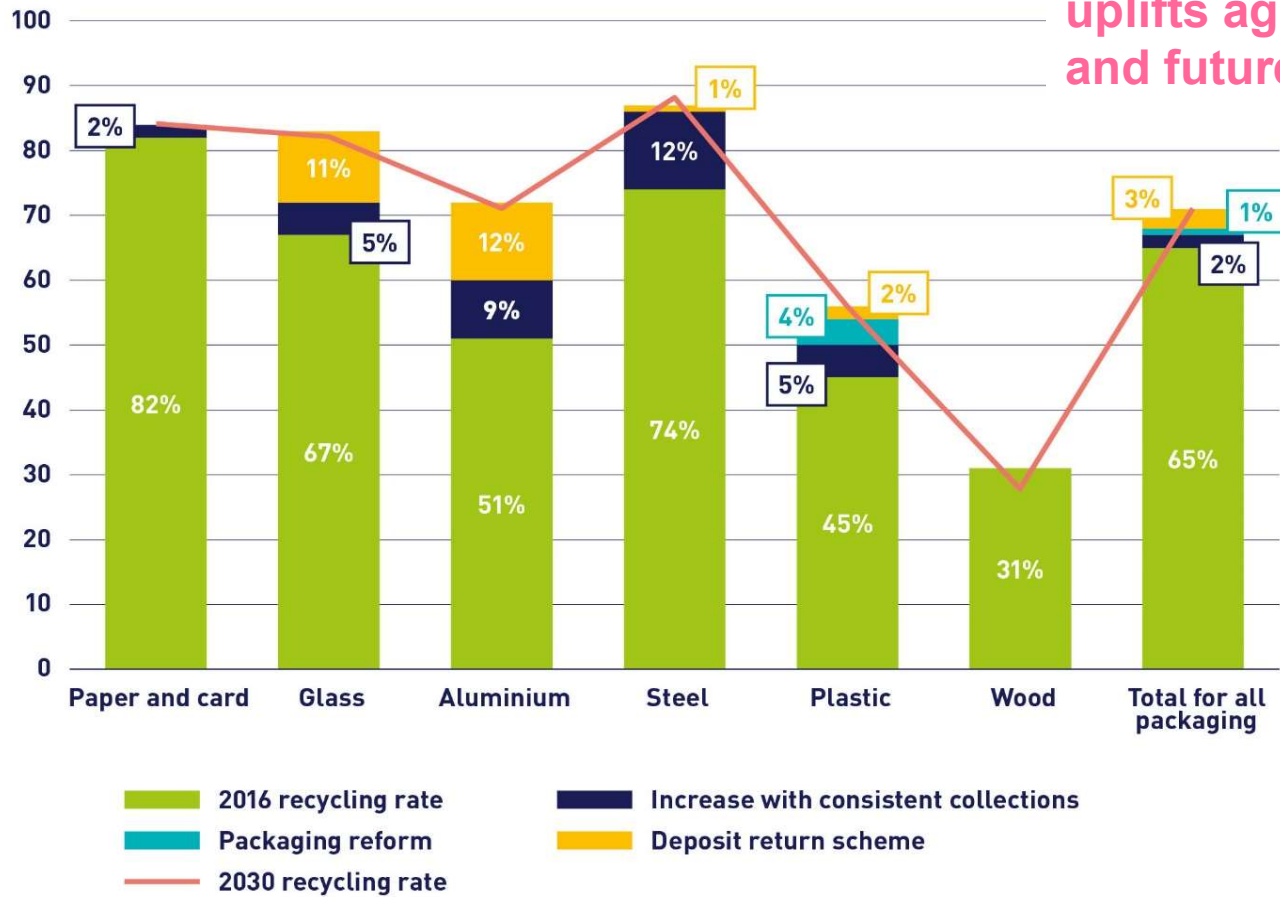
The same local impacts will apply to dry recyclable materials

2035 capture rates - Card



# Recycling | targets by type

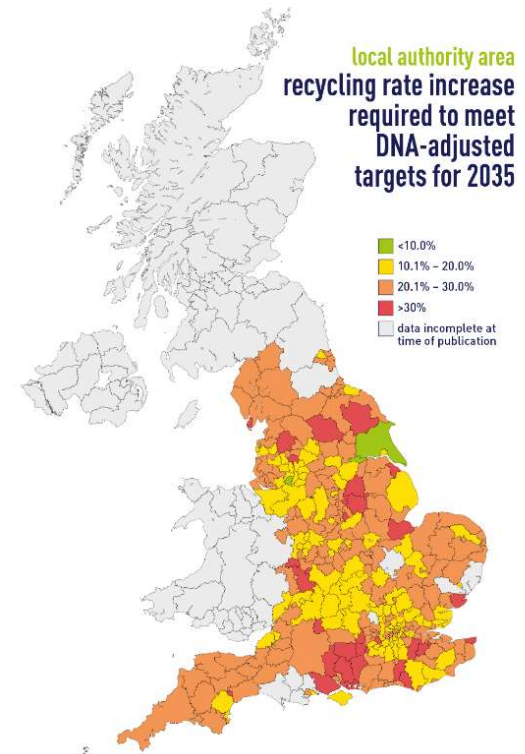
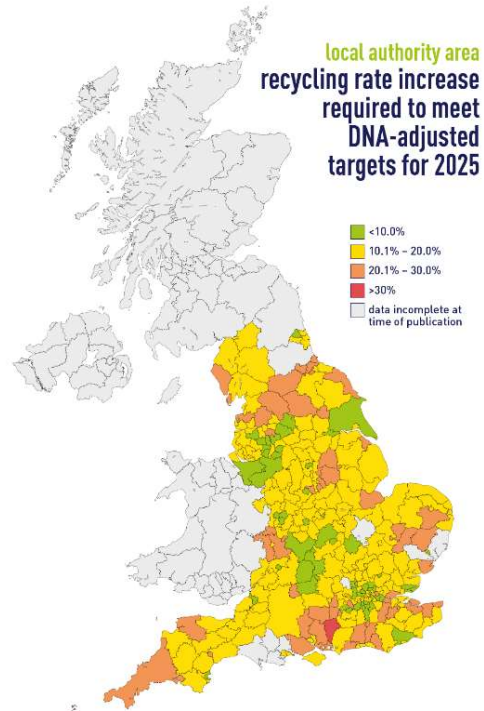
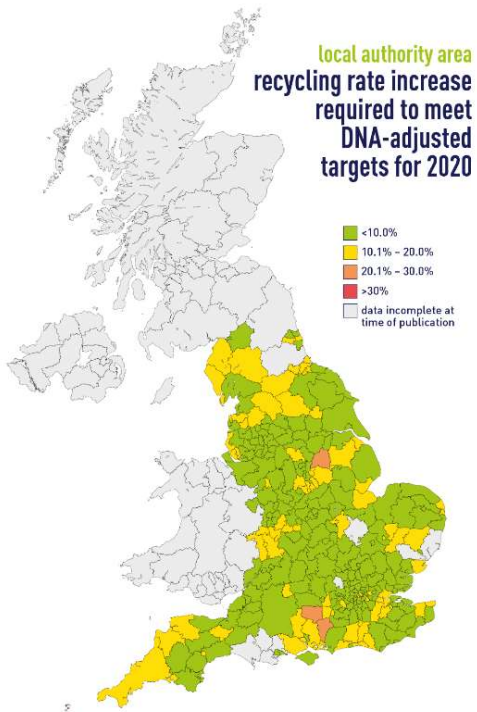
Recycling rates for packaging 2016-2030 with contributions from different policy interventions



Struggle to technically correlate some target uplifts against current and future performance

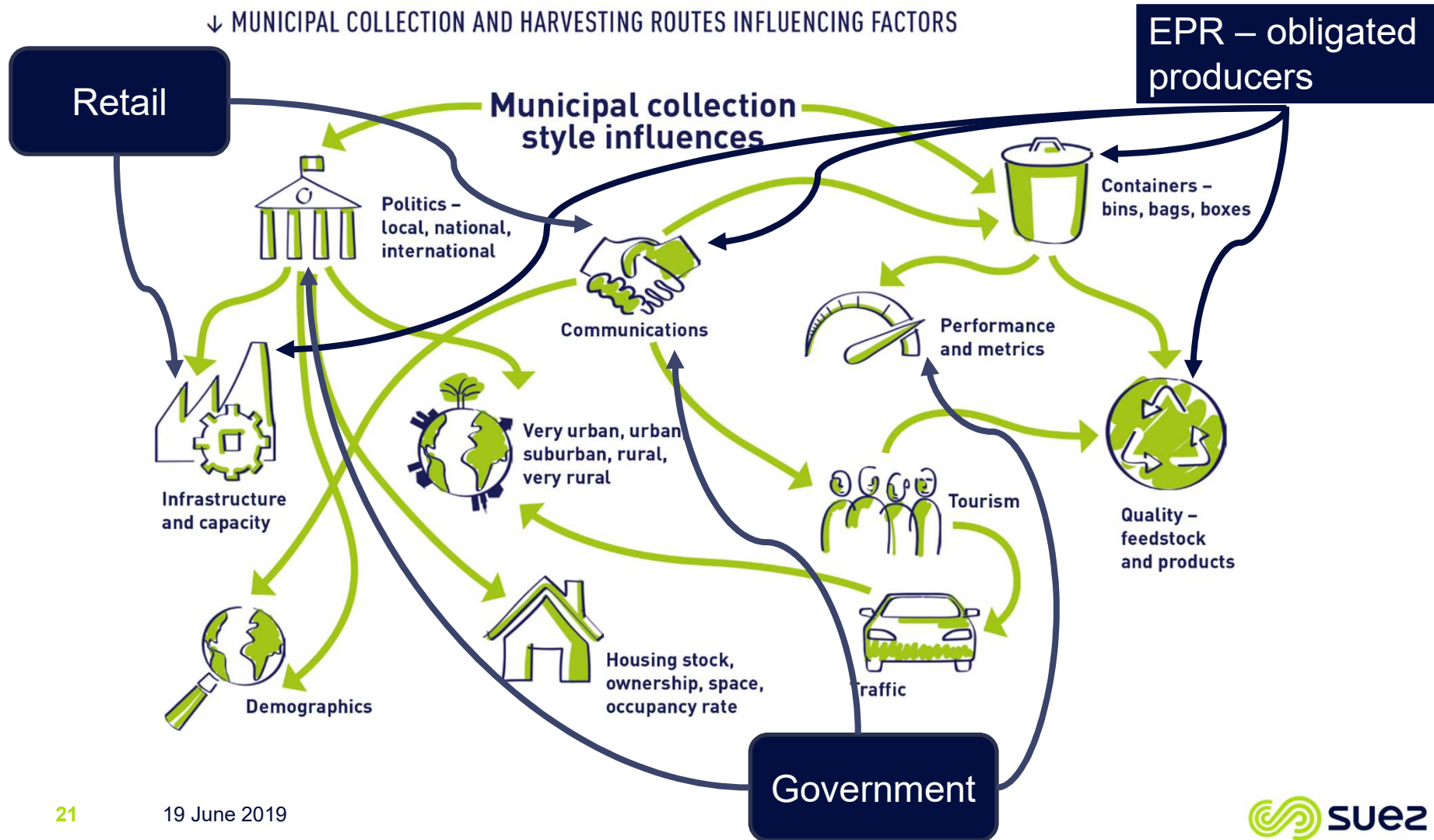
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# Differential targets | sharing the load

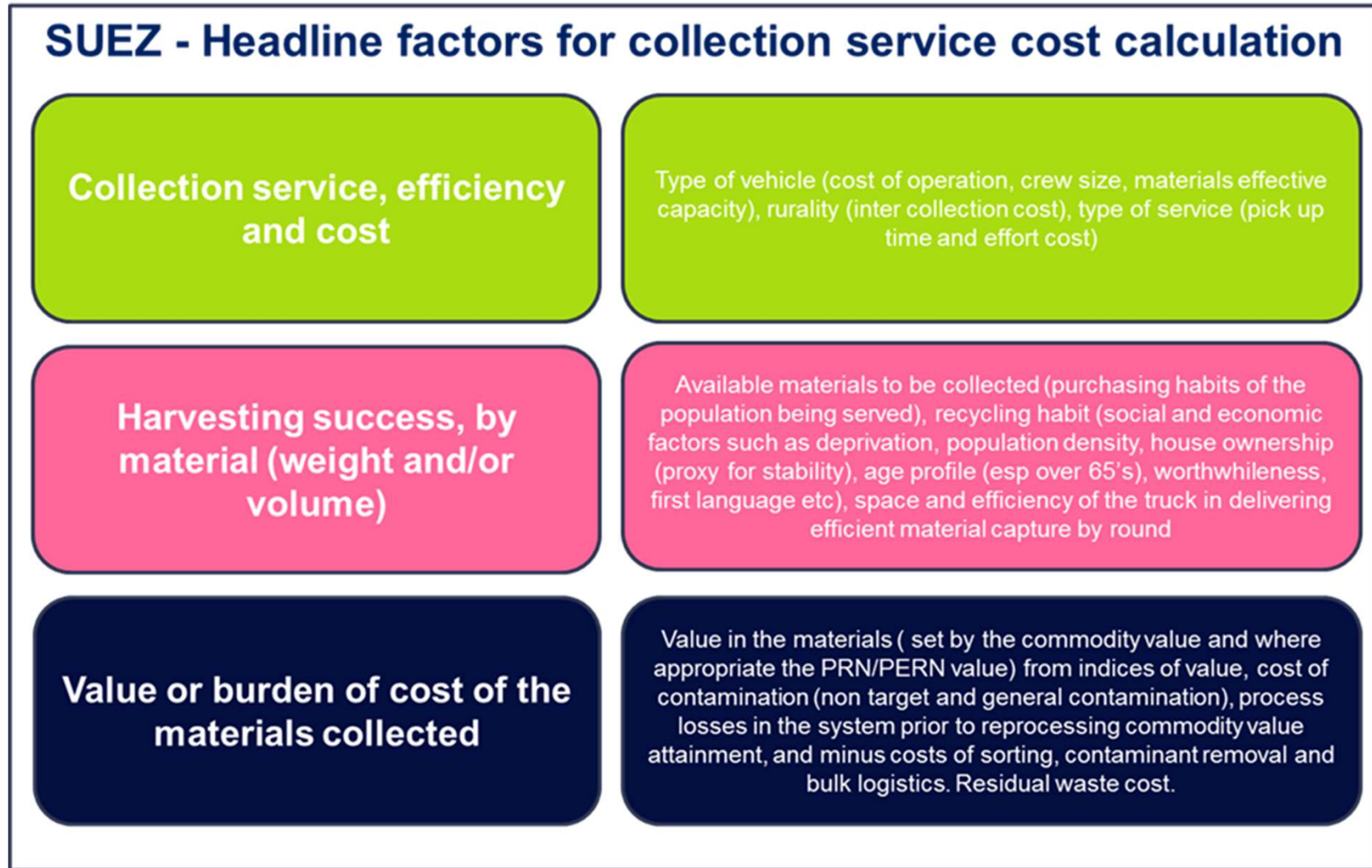


A national target with individual targets that reflect local constraints and opportunities

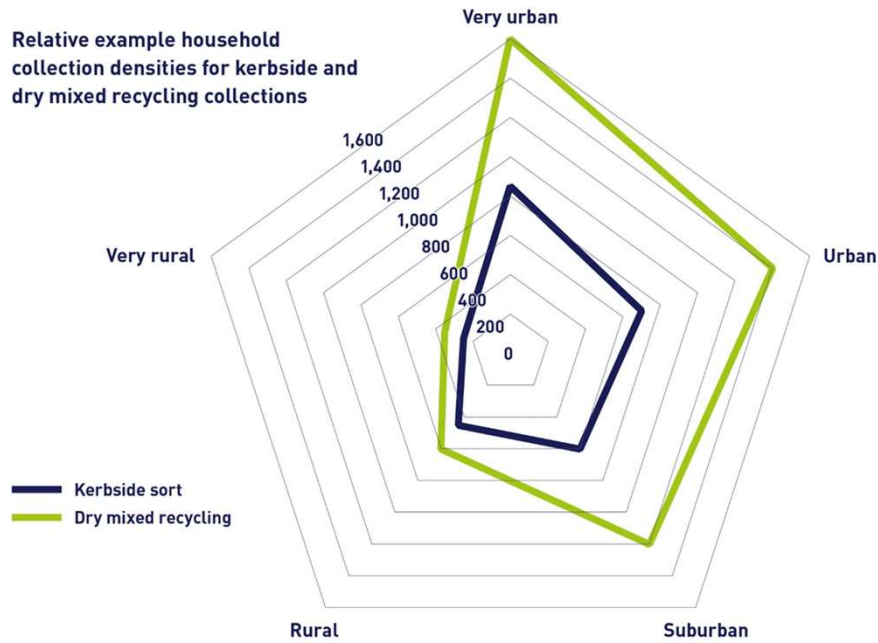
# Value Chain | more co-ordinated



# Collection costs | a different view



# Collection costs | a different view



Cost compensation through EPR Full net Cost Recovery needs to reflect local conditions

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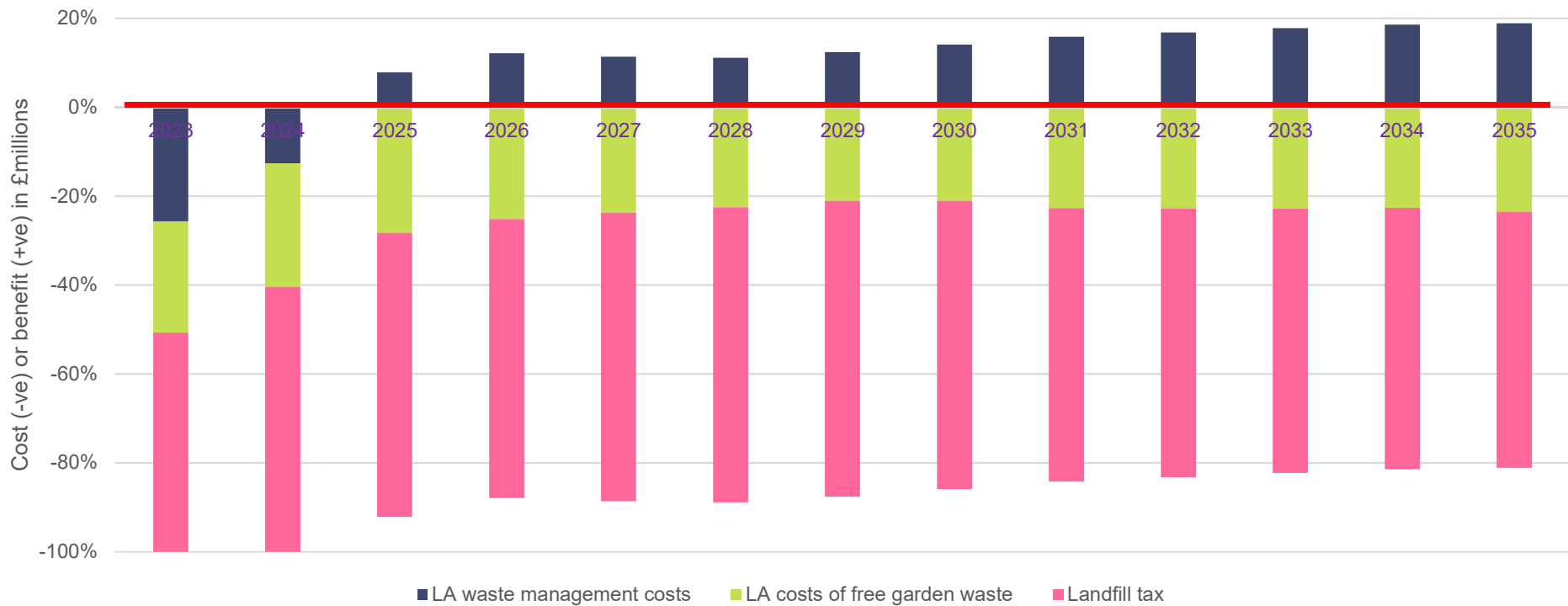
	Kerbside sort		Dry mixed recycling	
	No. of households	Indicative collection cost per household	No. of households	Indicative collection cost per household
Very urban	850	£30.00	1,600	£15.00
Urban	700	£40.00	1,400	£20.00
Suburban	600	£45.00	1,200	£30.00
Rural	450	£60.00	600	£45.00
Very rural	250	£90.00	350	£65.00

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# Funding | met costs (example LA only)

Net costs to LA's & waste producers - Option 3 of defra modelling of option 3 of their consistency calculations

(Excluding not realised GHG costs.savings to the public for free Green waste collections& NHM waste costs).





# Funding | RAWPIC (LA net expenditure)

Cost category	Total 2017/18 expenditure	£/hh
Street cleansing	£1,492,000	£30.31
Waste collection	£736,000	£14.95
Waste disposal	£0	£0.00
Recycling	£914,000	£18.57
Waste minimisation	£0	£0.00
<b>Total Net Current Expenditure</b>	<b>£3,142,000</b>	<b>£63.82</b>

By Weight	By Volume*	User Defined
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
25.1%	71.5%	
25.1%	71.5%	
25.1%	71.5%	
25.1%	71.5%	

\*estimated using bulky densities assumptions

Total expenditure associated with the obligated materials	£/hh
£184,547	£3.75
£0	£0.00
£229,179	£4.66
£0	£0.00
<b>£413,726</b>	<b>£8.40</b>

Cost category	Total 2017/18 expenditure	£/hh
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25.1%	71.5%	
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25.1%	71.5%	

\*estimated using bulky densities assumptions

Total expenditure associated with the obligated materials	£/hh
£526,593	£10.70
£0	£0.00
£653,948	£13.28
£0	£0.00
<b>£1,180,540</b>	<b>£23.98</b>

# **Success needs | a good system backed by the right detail & regulation**

- **We are on a journey, best done by the whole value chain working together.**
- **We do need some radical changes as well as evolutionary ones.**
- **We need to keep the ambition, learn from others and accept change, but the right change, done for the right reasons.**

# Thank You